

# *Sample Specification*

## *8 Digit Electromechanical Encoder Registers with glass lens*

### *Scope:*

This Specification covers 8 digit mechanical encoder registers and the materials employed in their fabrication. Separate specifications cover visually read registers that can be paired with meter specifications to provide a complete specification. The preferred register shall be the Mueller Systems ME-8 mechanical encoder register.

- ME-8 encoder registers shall be compatible with Mueller Systems current PD meters only.
- All Mueller Systems meters shall meet or exceed the American Water Works Association C707 Standard when equipped with ME-8 encoder registers.

### *Main Case:*

- Registers shall utilize a bayonet style locking mechanism for attachment to the main case of all meters.
- Registers shall be aligned to the mating magnet in the measuring device by the bayonet locking mechanism.

### *Register Assembly:*

- Registers shall be magnetic driven, straight reading, and permanently sealed by the manufacturer.
- Register shall employ gasket seal for protection against moisture intrusion.
- Register shall employ a heat-treated glass lens for strength and to prevent scratching of the lens.
- The register shall provide for 8 digit visual registration at the meter.
- The register shall provide up to 8 digits of electronic resolution as specified by the customer.
- The numerals on the number wheels of the register shall not be less than 1/4" in height and should be legible at a 45-degree angle.
- Registers shall incorporate a center sweep test hand and a low flow indicator.
- Register shall be secured to the meter main case by a tamper resistant bayonet-style locking mechanism protecting against unauthorized removal of the register.

- Register housing shall incorporate a stainless steel roll pin to securely attach the lid to the housing.
- Register housing shall incorporate a thick lid hinge capable of supporting the weight of the meter without damage.
- Register shall employ light pipes to determine odometer wheel positions
- No special tools shall be required to remove the register.
- Register shall be compatible with touch pad technology.